

## Active Recombinant Human ADA2 Protein, His-tagged

Cat. No. ADA2-281H    Lot. No. (See product label)

### SPECIFICATION

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>             | Recombinant Human ADA2 Protein (Ile30-Lys511) with a C-terminal 6-His tag was expressed in Chinese Hamster Ovary cell line.                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>                      | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>                       | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>                | 30-511 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>                  | This gene encodes a member of a subfamily of the adenosine deaminase protein family. The encoded protein is one of two adenosine deaminases found in humans, which regulate levels of the signaling molecule, adenosine. The encoded protein is secreted from monocytes undergoing differentiation and may regulate cell proliferation and differentiation. This gene may be responsible for some of the phenotypic features associated with cat eye syndrome. Alternative splicing results in multiple transcript variants. |
| <b>Bio-activity</b>                 | Measured by the ability to catalyze the hydrolytic deamination of adenosine to inosine. The specific activity is >14,000 pmol/min/μg.                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>               | 57 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>N-terminal Sequence Analysis</b> | Ile30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|                       |                                                                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | < 1.0 EU/μg of the protein by the LAL method.                                                                                                                                                         |
| <b>Purity</b>         | > 95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.                                                                                         |
| <b>Storage</b>        | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.<br>6 months from date of receipt, -70 centigrade as supplied.<br>3 months, -70 centigrade under sterile conditions after opening. |
| <b>Storage Buffer</b> | Supplied as a 0.2 μm filtered solution in HEPES, NaCl, Glycerol.                                                                                                                                      |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                               |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | ADA2 adenosine deaminase 2 [ Homo sapiens (human) ]                                                                                                                                                                           |
| <b>Official Symbol</b> | ADA2                                                                                                                                                                                                                          |
| <b>Synonyms</b>        | ADA2; adenosine deaminase 2; PAN; ADGF; CECR1; IDGFL; SNEDS; VAIHS; adenosine deaminase 2; adenosine deaminase CECR1; cat eye syndrome chromosome region, candidate 1; cat eye syndrome critical region protein 1; EC 3.5.4.4 |
| <b>Gene ID</b>         | 51816                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>     | NM_177405                                                                                                                                                                                                                     |
| <b>Protein Refseq</b>  | NP_803124                                                                                                                                                                                                                     |
| <b>MIM</b>             | 607575                                                                                                                                                                                                                        |
| <b>UniProt ID</b>      | Q9NZK5                                                                                                                                                                                                                        |

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