

## Recombinant Human MIA2 protein

Cat. No. MIA2-950H    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Recombinant Human MIA2 protein was expressed in Escherichia coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Species          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Source           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ProteinLength    | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Description      | Melanoma Inhibitor Activity Protein 2 (MIA-2) encoded by MIA2 gene in humans, is a secreted cytokine that is highly expressed in liver and weakly in testis. The patients with severe fibrosis or inflammation and chronic hepatitis have higher level of MIA2 than other. Levels of MIA2 may severe as a clinically utility marker for diagnosis of hepatic disease activity and severity. The MIA2 is a member of the MIA/OTOR family, which also includes MIA, OTOR, and TANGO, and they share a Src homology-3 (SH3)-like domain. |
| Form             | Lyophilized from a 0.2µm filtered concentrated solution in 20 mM PB, pH 7.4, 150 mM NaCl.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Molecular Mass   | Approximately 11.4 kDa, a single non-glycosylated polypeptide chain containing 100 amino acids.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| AA Sequence      | LESTKLLADLKKCGDLECEALINRVSAMRDYRGPDCRYLNFTKGEEISVYVKLAGER<br>EDLWAGSKGKEFGYFPRDAVQIEEVFISEEIQMSTKESDFLCL                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|                       |                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | Less than 1 EU/g of rHuMIA2 as determined by LAL method.                                                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>         | >97% by SDS-PAGE and HPLC analysis.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage</b>        | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.                                                                                             |
| <b>Reconstitution</b> | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions. |

## GENE INFORMATION

|                        |                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | MIA2                                                                                    |
| <b>Official Symbol</b> | MIA2                                                                                    |
| <b>Synonyms</b>        | MIA2; melanoma inhibitory activity 2; melanoma inhibitory activity protein 2; FLJ22404; |
| <b>Gene ID</b>         | 117153                                                                                  |
| <b>mRNA Refseq</b>     | NM_054024                                                                               |
| <b>Protein Refseq</b>  | NP_473365                                                                               |
| <b>MIM</b>             | 608001                                                                                  |

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UniProt ID

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