

# Recombinant Full Length Human ERAP1 Protein, C-Flag-tagged

**Cat. No.** ERAP1-665HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human ERAP1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | The protein encoded by this gene is an aminopeptidase involved in trimming HLA class I-binding precursors so that they can be presented on MHC class I molecules. The encoded protein acts as a monomer or as a heterodimer with ERAP2. This protein may also be involved in blood pressure regulation by inactivation of angiotensin II. Three transcript variants encoding two different isoforms have been found for this gene. |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | 107.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>AA Sequence</b>      | MVFLPLKWSLATMSFLLSLLALLTVSTPSWCQSTEASPKRSDGTPFPWNKIRLPEY<br>VIPVHYDLLIHAN LTTLTFWGTTKVEITASQPTSTIILHSHHLQISRATLRKGAGERLSE<br>EPLQVLEHPRQEQIALLAPEPLL VGLPYTVVIHYAGNLSETFHGFYKSTYRTKEGELR<br>ILASTQFEPTAARMAFPCFDEPAFKASFSIKIRRE PRHLAISNMPLVKSVTVAEGLIED<br>HFDVTVKMSTYLVAFIISDFESVSKITKSGVKVSVYAVPDKINQAD YALDAAVTLLFEY<br>EDYFSIPYPLPKQDLAAIPDFQSGAMENWGLTTYRESALLFDAEKSSASSKLGITMT                                              |

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VAHELAHQWFGNLVTMEWWNDLWLNNEGFAKFMEFVSVSVTHPELKVG DYFFGKC  
 FDAMEVDALNSSHPVS TPVENPAQIREMFDDVSYDKGACILNMLREYLSADAFKSGI  
 VQYLQKHSYKNTKNEDLWDSMASICPTDG VKGMDGFCRSRSHSSSSSHWHQEGV  
 DVKTMMNTWTLQKGFLITITVRGRNVHMKQEHYMKGSDGAPDTG YLWHVPLTFIT  
 SKSDMVHRFLLKTKTDVLILPEEVEWIKFNVGMNGYYIVHYEDDGWDSL TGLLKGTH  
 TA VSSNDRASLINNAFQLVSIGKLSIEKALDLSLYLKHETEIMPVFQGLNELIPMYKLM  
 EK RDMNEVETQFK AFLIRLLRDLIDKQTTWDEGSVSE RMLRSQLLLLACVHNYQPC  
 VQRAEGYFRKWKESNGNLSLPVDVTLA VFAVGAQSTEGWDFLYSKYQFSLSTEK  
 SQIEFALCRTQNKEKLQWLLDESFKGDKIKTQEFQILTIG RNPVGYPLAWQFLRK  
 NWNKLVQKFELGSSSIAHVMGTTNQFSTRTRLEEVKGFFSSLKENGSQLRCVQQ  
 TIETIEENIGWMDKNFDKIRVWLQSEKLEHDPEADATGTRTRPLEQKLISEEDLAANDI  
 LDYKDDDDKV

|                         |                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                  |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>          | Store at -80 centigrade.                                                                                                                      |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                             |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                              |
| <b>Protein Families</b> | Druggable Genome, Protease, Secreted Protein                                                                                                  |
| <b>Full Length</b>      | Full L.                                                                                                                                       |

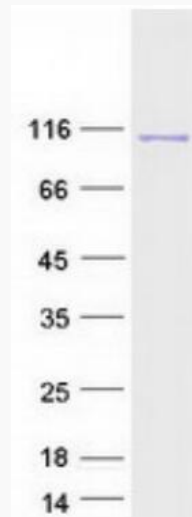
## GENE INFORMATION

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|                        |                                                                       |
|------------------------|-----------------------------------------------------------------------|
| <b>Gene Name</b>       | ERAP1 endoplasmic reticulum aminopeptidase 1 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | ERAP1                                                                 |
| <b>Synonyms</b>        | ALAP; A-LAP; ARTS1; ERAAP; APPILS; ARTS-1; ERAAP1; PILSAP; PILS-AP    |
| <b>Gene ID</b>         | 51752                                                                 |
| <b>mRNA Refseq</b>     | NM_016442.5                                                           |
| <b>Protein Refseq</b>  | NP_057526.3                                                           |
| <b>MIM</b>             | 606832                                                                |
| <b>UniProt ID</b>      | Q9NZ08                                                                |



Coomassie blue staining of purified ERAP1 protein.