

# Recombinant Mouse HAI-2/SPINT2 Protein (His Tag)

Catalog Number:PKSM040890



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

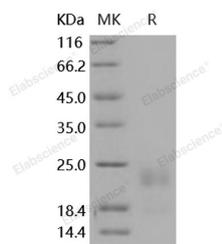
## Description

|                                    |                       |
|------------------------------------|-----------------------|
| <b>Synonyms</b>                    | AL024025;C76321;HAI-2 |
| <b>Species</b>                     | Mouse                 |
| <b>Expression Host</b>             | HEK293 Cells          |
| <b>Sequence</b>                    | Met 1-Lys 140         |
| <b>Accession</b>                   | NP_001076017.1        |
| <b>Calculated Molecular Weight</b> | 14 kDa                |
| <b>Observed molecular weight</b>   | 22 kDa                |
| <b>Tag</b>                         | C-His                 |

## Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 90 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.   |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.   |
| <b>Formulation</b>    | Lyophilized from sterile PBS, pH 7.4<br>Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual.           |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.  |

## Data



> 90 % as determined by reducing SDS-PAGE.

## Background

Choanal (CA) and gastrointestinal atresias (GA) are an important feature of syndromic congenital sodium diarrhea (sCSD), a disorder recently associated with mutations in the gene for serine protease inhibitor type 2 (SPINT2). The SPINT2 gene is epigenetically silenced or downregulated in human cancers, altering the balance of HGF activation/inhibition ratio, which contributes to cancer development and progression. SPINT2 is a tumor suppressor gene that inhibits proteases implicated in cancer progression, like HGFA, hepsin and matriptase. Loss of SPINT2 expression in tumors has been associated with gene promoter hypermethylation. SPINT2 (serine peptidase inhibitor Kunitz type 2), a proteolytic inhibitor of hepatocyte growth factor activator (HGFA), which has a significant role in the suppression of the HGF-MET pathway and malignant melanoma progression.

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