

## Product Datasheet

### HGFA Protein (pro form), Human, Recombinant (His) (orb1958769)

|                          |   |
|--------------------------|---|
| <b>Description</b>       | HGF activator (HGFA) is a serum-derived serine protease and belongs to the peptidase family S1. HGFA is responsible for the conversion of hepatocyte growth factor (HGF), from the inactive single-chain precursor to the active heterodimeric form, which is a potent mitogen, motogen, and morphogen for liver cells, epithelial cells, and endothelial cells. HGFA is synthesized and secreted by the liver and circulates in the plasma as an inactive single-chain zymogen in normal states. The zymogen is cleaved by thrombin or thermolysin through the endoproteolytic process and forms an active heterodimer linked by a disulfide bond. In turn, the active protease can be inhibited by HGFA inhibitors (HAIs) including HAI-1 and HAI-2. Besides, the HGFA zymogen acquires a strong affinity upon activation and thus may ensure the local action in tissue regeneration in the liver, kidney, and skin. It has been reported that activation of HGF is a critical limiting step in the HGF/SF-induced signaling pathway mediated by Met, and accordingly, aberrant expression of HGFA is implicated in tumorigenesis and progression. |
| <b>Storage</b>           | -20°C   |
| <b>Tag</b>               | C-His   |
| <b>Note</b>              | For research use only   |
| <b>Application notes</b> | A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.   |
| <b>Purity</b>            | 98.00%  |
| <b>MW</b>                | 68.2 kDa (predicted); 34, 37, 65, 105 kDa (reducing condition, due to glycosylation)  |
| <b>Uniprot ID</b>        | <b>Q04756</b>   |
| <b>Expiration Date</b>   | 6 months from date of receipt.  |

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