# **Recombinant Human HTRA2 Protein**



Catalog No.: RP00041 Recombinant

## **Sequence Information**

Species Gene ID Swiss Prot Human 27429 043464

Tags

No tag

**Synonyms** 

HTRA2;MGCA8;OMI;PARK13;PRSS25; OMI; PARK13; PRSS25

# **Product Information**

Source Purification
E. coli ≥ 90 % as
determined by SDS-

determined by SDS-PAGE.

Calculated MW Observed MW

34.98 kDa 35 kDa

**Endotoxin** 

Please contact us for more information.

#### **Formulation**

Lyophilized from a 0.22 µm filtered solution of 20mM Tris, 150mM NaCl, pH 8.0.Contact us for customized product form or formulation.

#### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

#### Contact

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# **Background**

The protein is a serine protease. It has been localized in the endoplasmic reticulum and interacts with an alternatively spliced form of mitogen-activated protein kinase 14. The protein has also been localized to the mitochondria with release to the cytosol following apoptotic stimulus. The protein is thought to induce apoptosis by binding the apoptosis inhibitory protein baculoviral IAP repeat-containing 4. Nuclear localization of this protein has also been observed.

#### **Basic Information**

#### **Description**

Recombinant Human HTRA2 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ala134-Glu458) of human HTRA2/Omi (Accession #NP 037379.1).

#### **Bio-Activity**

Protease activity demonstrated by HtrA2 cleavage of bovine  $\beta$ -casein (Sigma, Catalog # C-6905). Incubation of  $\beta$ -casein at 0.2 mg/mL with Recombinant Human HTRA-2 at 0.02 mg/mL (ratio of 10:1) for 60 minutes at 45°C in 50 mM Tris, pH 8.0, which results in >95% cleavage of  $\beta$ -casein, as revealed by SDS-PAGE.

### **Shipping**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

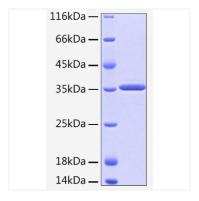
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

#### **Operational Notes**

For your safety and health, please wear a lab coat and disposable gloves for handling.

# **Validation Data**



Recombinant Human HTRA2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.