

Recombinant mouse TIM-3/HAVCR2 protein

Catalog Number: ATGP3992

PRODUCT INFORMATION

Expression system

HEK293

Domain

20-193aa

UniProt No.

Q8VIM0

NCBI Accession No.

NP_599011.2

Alternative Names

Hepatitis A virus cellular receptor 2 homolog, T-cell immunoglobulin and mucin domain-containing protein 3, TIMD-3, T-cell immunoglobulin mucin receptor 3, TIM-3, T-cell membrane protein 3, CD366

PRODUCT SPECIFICATION

Molecular Weight

46.3kDa (413aa)

Concentration

0.5mg/ml (determined by Absorbance at 280nm)

Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS - PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

hIgG-His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

TIM-3, also known as HAVCR2 (hepatitis A virus cellular receptor 2), belongs to TIM family cell surface receptor proteins. TIM-3 is up-regulated on several populations of activated myeloid cells and T cells. It is an immune checkpoint and together with other inhibitory receptors including PD-1 and LAG3 mediate the CD8+ T-cell

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exhaustion. Also, it is primarily activated by galectin-9. The engagement leads to stimulation of an influx of calcium to intracellular space and induction of programmed cell death, apoptosis. As a consequence, a suppression of Th1 and Th17 responses and induction of immune tolerance occurs. Recombinant mouse TIM-3, fused to hlgG-His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

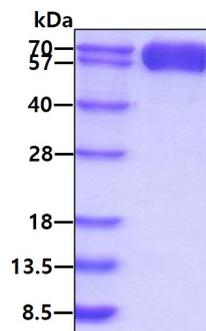
RSLENAYVFE VGKNAYLPCS YTLSTPGALV PMCWVGKGFPC WSQCTNELLR TDERNVTYQK SSRYQLKGD L NKGDVSLI IK
NVTLDHGHGTY CCRIQFPGLM NDKKLELKLD IKA AKVTPAQ TAHGDSTTAS PRTL TTERNG SETQTLVTLH NNNGTKISTW
ADEIKDSGET IRTA<LEPKSC DKHTCP PCP APELLGGPSV FLFPPKPKDT LMISRTPEVT CVVVDVSHED PEVKFNWYVD
GVEVHNAKTK PREEQYNSTY RVVSVLTVLH QDWLNGKEYK CKVSNKALPA PIEKTISKAK GQPREPQVYT LPPSRDELTK
NQVSLTCLVK GFYPSDIAVE WESNGQPENN YKTTTPVLDS DGSFFLYSKL TVDKSRWQQG NVFSCSV MHE ALHNHYTQKS
LSLSPGKHHH HHH>

General References

Ana C Anderson., et al, (2016) Immunity. 44:989-1004.
Ruihan Tang., et al, (2019) Semin Immunol. 42:101302.
Huang YH., (2015) Nature. 517:386-390.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain