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Recombinant mouse CD39L2/ENTPD6 Protein

Catalog Number: ATGP3984

PRODUCT INFORMATION

Expression system
HEK293

Domain
33-455aa

UniProt No.
Q3U0P5

NCBI Accession No.
NP_742115.2

Alternative Names
ectonucleoside triphosphate diphosphohydrolase 6 isoform1, 2700026H11Rik, Cd39l, Cd39l2, dJ738P15.3, NTPDa, NTPDase-6, Entpd6

PRODUCT SPECIFICATION

Molecular Weight
47.3kDa (433aa)

Concentration
0.25mg/ml (determined by Absorbance at 280nm)

Formulation
Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

Purity
> 95% by SDS - PAGE

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

Biological Activity
Specific activity is > 80,000 pmol/min/ug, and is defined as the amount of enzyme that hydrolyze GDP per minute at pH 7.5 at 25C.

Tag
His-Tag

Application
SDS-PAGE, Enzyme Activity

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.

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BACKGROUND

Description

CD39L2, also known as ENTPD6, is a nucleoside phosphohydrolase of the CD39 family of enzymes that is present on the surface of cells. It is soluble monomeric enzyme, making it more amenable to thorough structural and fuctional analysis than the membrane-bound forms. Soluble CD39L2 preferentially exhibits nucleoside diphosphatase activity, which is depedent on the presence of divalent cations. It is expressed at its highest levels in cardiac muscle and in heart capillary endothelial cells. Also, it plays a role in the regulation and recruitment of platelet activation in heart. Recombinant mouse CD39L2, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

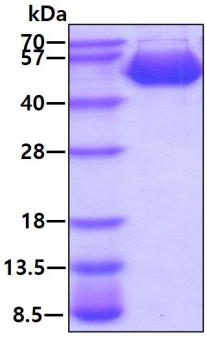
<DGSM>KWHRAS AAQAFFTIAG AASGARWTQQ AFSSPGSAAR GHEVFYGIMF DAGSTGTRIH VFQFARPPGE TPTLTHETFK ALKPGLSAYA DDVEKSAQGI QELLNVAKQH IPYDFWKATP LVLKATAGLR LLPGEKAQKL LQKVKEVFKA SPFLVGDDCV SIMNGTDEGV SAWITVNFLT GSLKTPGSSS VGMLDLGGGS TQITFLPRVE GTLQASPPGH LTALQMFNRT YKLYSYSYLG LGLMSARLAI LGGVEGKPAE NDKELVSPCL SPRFRGEWEH AEVTYRISGQ KAVGLYELCA SRVSEVLRNK VHRTEEAQHV DFYAFSYYYD LAASFGLIDA EKGGSLVVGD FEIAAKYVCR TLETQPPSSP FACMDLTYIS LLLHEFGFPG DKVLKLARKI DNVETSWALG AIFHYIDSLK RQKVPAL<HHH HHH>

General References

Yeung G., et al, (2000) Biochemistry. 39:12916-12923.
Hicks-Berger CA, et al, (2000) J Biol Chem. 275:34041-34045.
Ivanenkov VV, et al, (2003) Biochemistry. 42:11726-11735.

DATA

SDS-PAGE



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