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Data Sheet

CD73, His-tag

Human, recombinant, C-terminal His-tag
Catalog #: 71184
Lot #: 140729-D **Conc.:** 0.82 mg/ml

Formulated in: 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol.

Stability: At least 6 months at –80°C. *Avoid freeze/thaw cycles. Storing diluted protein is not recommended, if necessary, use carrier protein (BSA 0.1 – 0.5%).*

References:
1. Deaglio, S. *et al., J. Exp. Med.* 2007; **204(6):** 1257-1265.
2. Thompson, L.F., *et al., J. Exp. Med.* 2004; **200(11):** 1395-1405.

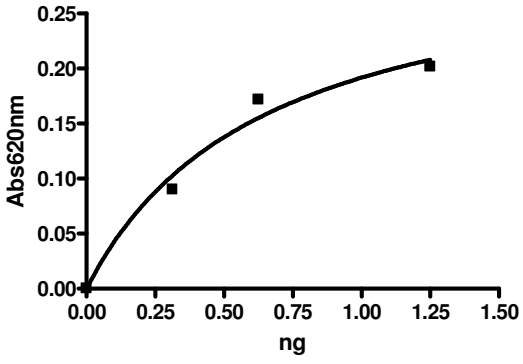
Description: Human CD73, also known as 5'-nucleotidase and Ecto-5'-nucleotidase, GenBank Accession No. NM_002526, a.a. 27-547 with C-terminal His-tag, expressed in a HEK293 cell expression system. MW = 58.6 kDa. This protein runs at a higher MW by SDS-PAGE due to glycosylation.

Specific Activity: ≥20 nmol/min/µg
Assay Description: Assay was done in 50 µL assay buffer containing 40 mM Tris, pH 7.4, 20 mM MgCl2, 0.1 mg/ml BSA and 40 µM AMP for 20 min at 37 oC. Inorganic phosphate produced was measured using Biomol Green (Enzo Life Science) reagent.

Application: Useful for studying enzyme kinetics, substrate specificity, and screening inhibitors.

Quality Assurance

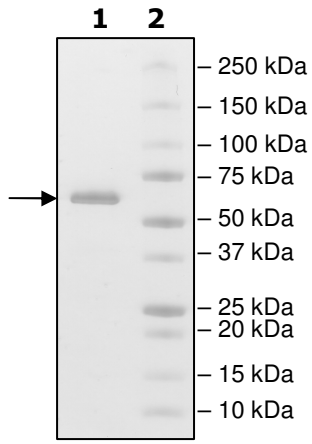
Specific Activity



4-20% SDS-PAGE
Coomassie staining

Lane 1:
2 µg CD73
Lane 2:
Protein Marker

MW: 58.6 kDa
Purity: ≥90%



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Sequence

**WELTILHTNDVHSRLEQTSEDSSKCVNASRCMGGVARLFTKVQQIRRAEPNVLLLDA
GDQYQGTIWFTVYKGAEVAHFMNALRYDAMALGNHEFDNGVEGLIEPLLKEAKFPIL
SANIKAKGPLASQISGLYLPYKVLPVGDEVVGIVGYTSKETPFLSNPGTNLVFEDEITAL
QPEVDKLKTLNVNKIIALGHSGFEMDKLIAQKVRGVDVVVGGHSNTFLYTGNPPSKEV
PAGKYPFIVTSDDGRKVPVVQAYAFGKYLGYLKIEFDERGNVISSHGNPILLNSSIPED
PSIKADINKWRIKLDNYSTQELGKTIVYLDGSSQSCRFRECNMGNLICDAMINNNLRHT
DEMFWNHVSMCILNGGGIRSPIDERNNGTITWENLAAVLPFGGTFDLVQLKGSTLKKA
FEHSVHRYGQSTGEFLQVGGIHVVYDLSRKPGDRVVKLDVLCTKCRVPSYDPLKMDE
VYKVILPNFLANGGDGFQMIKDELLRHDSGDQDINVVSTYISKMKVIYPAVEGRIK**HHH
HHH

Black: CD73 (a.a. 27-547)
Red: 6xHis

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