

Datasheet for ABIN7273415
NPR1 Protein (His-Avi Tag,Biotin)



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Overview

Quantity:	200 µg
Target:	NPR1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NPR1 protein is labelled with His-Avi Tag,Biotin.

Product Details

Purpose:	Biotinylated Human NPR1 / NPRA Protein, His,Avitag™ (MALS verified)
Sequence:	Gly 33 - Glu 473
Characteristics:	Biotinylated Human NPR1, His,Avitag (NP1-H82E9) is expressed from human 293 cells (HEK293). It contains AA Gly 33 - Glu 473 (Accession # P16066-1).
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.
Grade:	MALS verified

Target Details

Target:	NPR1
Alternative Name:	NPR1 / NPRA (NPR1 Products)
Background:	Synonyms:Atrial natriuretic peptide receptor 1,NPR1,NPRA,GC-A,ANPRA,NPR-

Target Details

A,Description:Receptor for the atrial natriuretic peptide NPPA/ANP and the brain natriuretic peptide NPPB/BNP which are potent vasoactive hormones playing a key role in cardiovascular homeostasis. Has guanylate cyclase activity upon binding of the ligand.

Molecular Weight: 52.5 kDa

NCBI Accession: [NP_000897](#)

Application Details

Application Notes: This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™). The protein has a calculated MW of 52.5 kDa. The protein migrates as 63-70 kDa under reducing (R) condition due to glycosylation.

Comment: Ready-to-use Avitag™ biotinylated protein:
The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.

This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: PBS, pH 7.4

Storage: -20 °C

Storage Comment: -20°C