

Datasheet for ABIN7597343

**GDF2 Protein (AA 1-429) (DYKDDDDK Tag)**[Go to Product page](#)

## Overview

Quantity:	10 µg
Target:	GDF2
Protein Characteristics:	AA 1-429
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GDF2 protein is labelled with DYKDDDDK Tag.

## Product Details

Purpose:	Recombinant human GDF2 Protein with C-terminal 3xFlag tag
Sequence:	GDF2(Met1-Arg429) 3xFlag tag
Purity:	The purity of the protein is greater than 80 % as determined by SDS-PAGE and Coomassie blue staining.

## Target Details

Target:	GDF2
Alternative Name:	GDF2 ( <a href="#">GDF2 Products</a> )
Background:	<p>BMP9, HHT5, BMP-9</p> <p>This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression.</p>

## Target Details

The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein regulates cartilage and bone development, angiogenesis and differentiation of cholinergic central nervous system neurons. Mutations in this gene are associated with hereditary hemorrhagic telangiectasia. [provided by RefSeq, Jul 2016]

Molecular Weight: predicted molecular mass of 50.3 kDa after removal of the signal peptide.

UniProt: [Q9UK05](#)

Pathways: [Transition Metal Ion Homeostasis](#)

## Application Details

Application Notes: Extracellular Domain Proteins (ECD) can be used as:

- Immunogens for antibody drug development
- Reagents used for CAR-T positive cell monitoring
- Reagents for antibody screening and functional testing
- Reagents for antibody affinity measurement

Comment: The protein was made using HEK293 mammalian cell secretion expression system to ensure the close-to-native structures and post-translational modifications of the target protein.

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization.

Storage: -20 °C, -80 °C

Storage Comment: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).  
Lyophilized proteins are shipped at ambient temperature.

Expiry Date: 12 months