

Bioactive

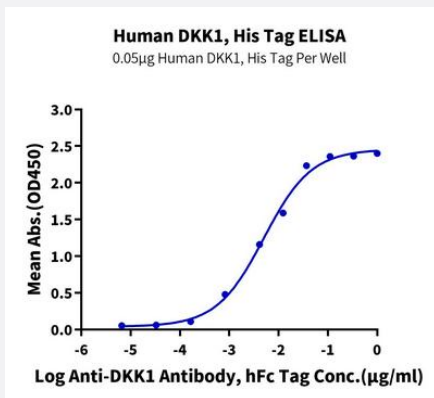
HuPro®

DKK1 (Human) Recombinant Protein

Catalog # P9703

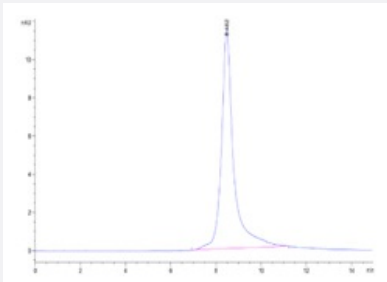
Size 100 ug

Applications



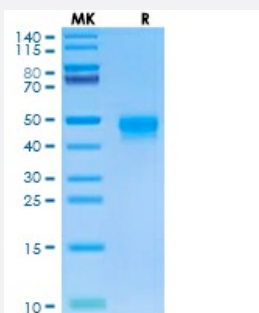
Enzyme-linked Immunoabsorbent Assay

Immobilized Human DKK1, His Tag at 0.5 ug/mL (100 uL/well) on the plate. Dose response curve for Anti-DKK1 Antibody, hFc Tag with the EC50 of 5.1 ng/mL determined by ELISA.



SEC-HPLC

The purity of Human DKK1 is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

Human DKK1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description	Human DKK1 (O94907, 32 a.a. - 266 a.a.) partial recombinant protein with His tag at C-terminus expressed in HEK293 cells.
Sequence	TLNSVLNSNAIKNLPPPLGGAAGHPGSAVSAAPGILYPGGNKYQTIDNYQPYPCAEDEECGTDEYC ASPTRGGDAGVQICLACRKRRKRCMRHAMCCPGNYCKNGICVSSDQNHFRGEIETITESFGND HSTLDGYSRRTLSSKMYHTKGQEGSVCLRSSDCASGLCCARHFWSKICKPVLKEGQVCTKHRR KGSHGLEIFQRCYCGEGLSCRIQKDHQASNSSRLHTCQRH
Host	Human
Theoretical MW (kDa)	26.87
Form	Lyophilized
Preparation Method	Mammalian cell (Expi293, high-yield transient HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC ₅₀ was 5.1 ng/mL, measured by ELISA at 0.5 ug/mL.
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human DKK1 is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human DKK1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Enzyme-linked Immunoabsorbent Assay

Immobilized Human DKK1, His Tag at 0.5 ug/mL (100 uL/well) on the plate. Dose response curve for Anti-DKK1 Antibody, hFc Tag with the EC₅₀ of 5.1 ng/mL determined by ELISA.

- Functional Study

- SDS-PAGE

Gene Info — DKK1

Entrez GeneID	22943
Protein Accession#	O94907
Gene Name	DKK1
Gene Alias	DKK-1, SK
Gene Description	dickkopf homolog 1 (Xenopus laevis)
Omim ID	605189
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a protein that is a member of the dickkopf family. It is a secreted protein with two cysteine rich regions and is involved in embryonic development through its inhibition of the WNT signaling pathway. Elevated levels of DKK1 in bone marrow plasma and peripheral blood is associated with the presence of osteolytic bone lesions in patients with multiple myeloma. [provided by RefSeq]
Other Designations	OTTHUMP00000019617 dickkopf homolog 1 dickkopf related protein-1 dickkopf-1 like

Pathway

- [Wnt signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Asthma](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Genetic Predisposition to Disease](#)
- [Hip Fractures](#)

- [Kidney Failure](#)
- [Liver Diseases](#)
- [Ovarian Neoplasms](#)
- [Schizophrenia](#)
- [Spinal Fractures](#)