

HumanKine® recombinant human Wnt3A protein



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

Product Description

Recombinant Human Wnt3A is a member of the Wnt gene family that consists of structurally linked genes that encode secreted signaling proteins. These proteins are associated with oncogenesis and in numerous developmental processes. These processes include regulation of cell fate and patterning during embryogenesis. Human Wnt3A is a protein which shows 84% identity relative to other human Wnt3 proteins. Wnt3A plays a key role in maintaining the integrity of embryonic and adult tissues. The post-translational glycosylation and acylation of Wnts are essential for their efficient secretion and biological activity.

Alternative Names

Protein Wnt 3a, WNT3A

Source

Human Embryonic Kidney cells (HEK293). HEK293-derived Wnt3A protein

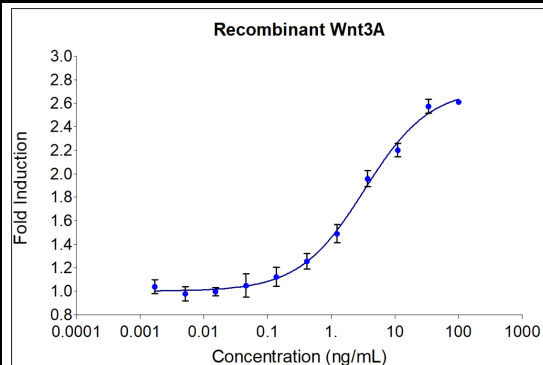
Species Reactivity

human,mouse

Specifications

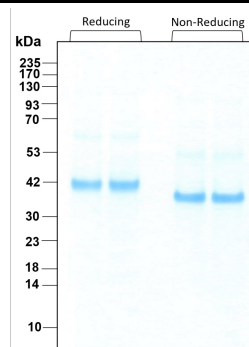
Test	Method	Specification
Activity	Dose-dependent luciferase production in a Hek293 reporter cell line.	25-500 ng/mL in reporter cells
Molecular Mass	SDS-PAGE	42 kDa reduced, 40 kDa non-reduced, monomer, glycosylated
Purity	SDS-PAGE	>90%
Endotoxin	LAL	<1 EU/μg

Activity Data



Recombinant human Wnt3A (HZ-1296) induces dose-dependent alkaline phosphatase production in MC3T3 E1 mouse preosteoblast cells using pNPP as chromogenic substrate. MC3T3 E1 cells were treated with increasing concentrations of recombinant Wnt3A for 72 hours. The EC₅₀ was determined using a 4-parameter non-linear regression model. The EC₅₀

SDS-PAGE



Preparation	
Shipping Temperature	ambient temperature
Formulation	1x PBS pH 7.4 + 1% CHAPS, See Certificate of Analysis for details
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.1 mg/mL in sterile 1x PBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.

Stability and Storage	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
Avoid repeated freeze-thaw cycles.			

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Proteintech Group, Inc.
5500 Pearl Street, Suite 400 Rosemont, IL 60612
t: 1-888-478-4522; f: 1-312-455-8408
Email: proteintech@ptglab.com