

HumanKine[®] Wnt3A (Recombinant Human)



| | | | |
|-----------------------|----------------------|----------|----------------|
| Animal Component-Free | Human cell expressed | Tag-Free | Endotoxin Free |
|-----------------------|----------------------|----------|----------------|

Product Description

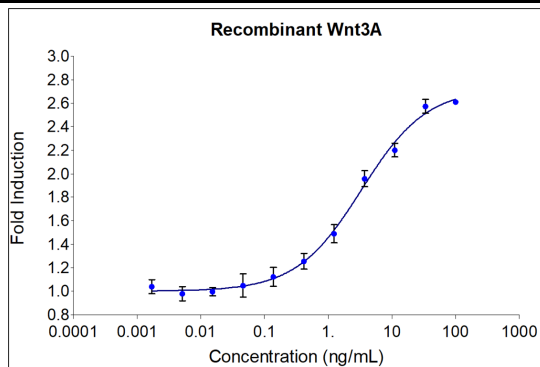
Recombinant Human Wnt3A is a member of the Wnt gene family that consists of structurally linked genes that encode secreted signaling proteins. These proteins are associated with oncogenesis and in numerous developmental processes. These processes include regulation of cell fate and patterning during 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

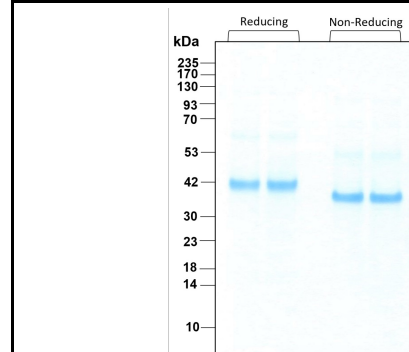
| Test | Method | Specification |
|----------------|--|---|
| Activity | Dose-dependent luciferase production in a Hek293 reporter cell line. | 25-500 ng/mL EC50 in reporter cells |
| Molecular Mass | SDS-PAGE | 42 kDa reduced, 40 kDa non-reduced, monomer, glycosylated |
| Purity | SDS-PAGE | >90% |
| 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 $\leq 100\mu\text{g/mL}$ in sterile 1x PBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). |

| 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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