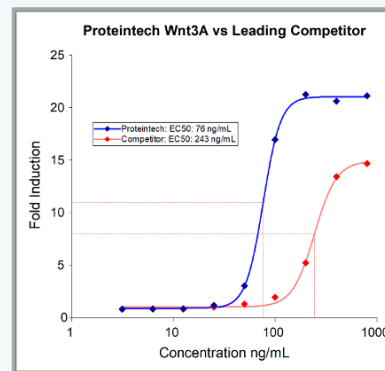


The HumanKine® Advantage

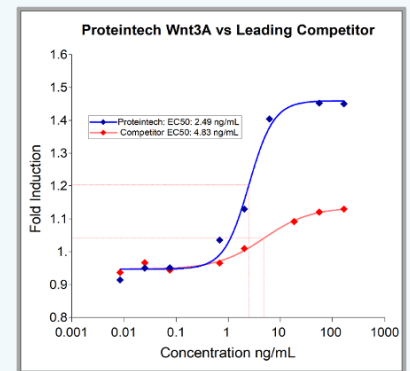
High purity, high activity Wnt3A without the high price

Wnt3A is critical for the regulation of cell fate and patterning during embryogenesis and plays a key role in maintaining the integrity of embryonic and adult tissues. Wnt3A recombinant proteins are an important component of stem cell and organoid cultures. The post-translational glycosylation and acylation of Wnts are essential for their efficient secretion and biological activity, which is why our HumanKine® Wnt3A that is produced in HEK293 cells provides native human glycosylation for proper activity.

HumanKine® Wnt3A is twice as active as leading competitor's product when compared side-by-side in two recognised, validated bio-assays.



Wnt3A Induced Luciferase Production in Hek293 Reporter Cells



Wnt3A Induced Proliferation in MC3T3 E1 Mouse Preosteoblast Cells

Wnt3A recombinant protein is notoriously difficult to manufacture, with purity of most Wnt3A recombinant proteins on the market being in the range of 75%. However, Proteintech's HumanKine recombinant cytokines and growth-factors have several advantages.

See the Proteintech HumanKine® advantages below:

Antibody	HumanKine®	Competitor A	Competitor B	Competitor C
Price/ 10ug	270€ / £199 / \$399	636€ / £567 / \$739	288€ / £214 / \$339	288€ / £214 / \$339
Purity	>90%	>90%	>75%	>75%
Activity (EC50) (lower is better)	1.5 ng/mL	1.5-7.5 ng/mL	5-25 ng/mL	5-25 ng/mL
Source	HEK293	CHO	CHO	CHO