

Recombinant Human Wnt3a

**Keep Frozen
Until Use**

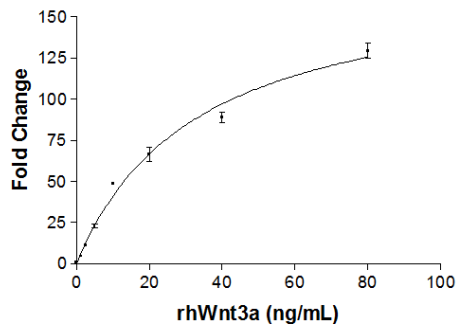
Catalog Number:	rhW3aL
Source:	Human cell-derived
Sequences:	Ser19-Lys352
Synonyms:	Protein Wnt-3a; wingless-type MMTV integration site family, member 3A; WNT3A
Purity:	~ 75 % evaluated by SDS-PAGE under reducing conditions
Predicted M.W.:	37 kDa
Actual M.W.:	41 kDa evaluated by SDS-PAGE under reducing conditions

Description
Protein Wnt-3a is a protein that is encoded by the WNT3A gene. The WNT gene family consists of structurally related genes that encode secreted signaling proteins. These proteins have been implicated in oncogenesis, adipogenesis, etc. and in several other developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene is a member of the WNT gene family. Human Wnt3a shows 96% amino acid identity to mouse Wnt3a protein. This protein was purified using a combination of ion exchange, affinity column with Wnt signaling inhibitor-bound sepharose beads, and followed by gel filtration chromatography.

Concentration
10-100 µg/mL Please refer to the concentration on the label of each tube

Activity:
Wnt3a activity has been measured using TCF-based Wnt reporter stable cell line (Catalog WRHEK293A-HWR). 10 ng/mL of Wnt3a (Lot: 22JAN2016) generate 50-fold increase of luciferase activity compared to control (buffer without Wnt3a).

Bioactivity of rhWnt3a



Formulation
Phosphate buffer, pH 7.4-7.6, CHAPS, 0.1% BSA.

Handling and Storage
Keep the protein frozen until use. Refreeze aliquots at 20°C or below. The unused solution can be refrozen without losing activity. Mix the protein by pipetting up and down only but do not use vortexer.

Purified Wnt ligands are very unstable in serum-free medium (half-life: 2 hours). To treat cells with Wnt ligands in serum-free medium, take an aliquot of Wnt ligand solution and add it into culture medium (at least 1 to 500 times dilution), and then add an aliquot of Wnt protein stabilizer (Catalog: bWps, 1 to 500 times dilution) to protect Wnt ligands.

Wnt control buffer (Phosphate buffered saline pH 7.4-7.6, CHAPS, 0.1% BSA) can serve as a control.