

## LEFTY1 Human

**Description:** LEFTY1 Human Recombinant produced in HEK cells is a glycosylated monomer, having a total molecular weight of 38kDa. The LEFTY1 is purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-969

For research use only.

**Synonyms:** Left-right determination factor 1, Left-right determination factor B, Protein lefty-1, Protein lefty-B, LEFTY1, LEFTB, LEFTYB.

**Source:** HEK.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Purity:** Greater than 90% as observed by SDS-PAGE.

**Formulation:**

The LEFTY1 was lyophilized from 1mg/ml in 1xPBS.

**Stability:**

Lyophilized LEFTY1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution LEFTY1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized LEFTY1 in sterile water not less than 100

**Introduction:**

Left-Right Determination Factor 1 (LEFTY1) belongs to the TGF-beta family of proteins. LEFTY1 is required for left-right axis determination as a regulator of LEFTY2 and NODAL. An analogous secreted protein in mouse has a role in left-right asymmetry determination of organ systems during development. The LEFTY1 gene is closely linked to both a related family member and a related pseudogene.

**Biological Activity:**

The specific activity was determined by dose dependent ability to inhibit BMP-4 (6.5 ng/mL) induction of alkaline phosphatase production in the MC-3T3-E1 cell line (Mouse chondrogenic cell line) and is typically 10-40ng/ml.

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