

Left-Right Determination Factor 1 Human Recombinant

Item Number	rAP-3531
Synonyms	Left-right determination factor 1, Left-right determination factor B, Protein lefty-1, Protein lefty-B, LEFTY1, LEFTB, LEFTYB.
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.
Uniprot Accesion Number	O75610
Amino Acid Sequence	
Source	HEK.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. 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.
Formulation and Purity	The LEFTY1 was lyophilized from 1mg/ml in 1xPBS. Greater than 90% as observed by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized LEFTY1 in sterile water not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
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.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the end users! This product is sold for **Research Use Only**