

Recombinant Human Wnt-3a Protein

产品信息

产品名称	产品编号	规格
Recombinant Human Wnt -3a Protein	92276ES10	10 µg
	92276ES60	100 µg
	92276ES76	500 µg
	92276ES80	1 mg

产品描述

Wnt3a, one of Wnt family members, plays key roles in regulating pleiotropic cellular functions, including self-renewal, proliferation, differentiation, and motility. The Wnt family comprises 19 human proteins, including Wnt1, Wnt2, Wnt2b (Wnt13), Wnt3, Wnt3a, Wnt4, Wnt5a, Wnt5b, Wnt6, Wnt7a, Wnt7b, Wnt8a, Wnt8b, Wnt9a (Wnt14), Wnt9b (Wnt14b), Wnt10a, Wnt10b, Wnt11, and Wnt16. These genes encode secreted glycoproteins that are rich in cysteine. Wnts can combine with cell membrane receptors that play a critical role in autocrine regulation and/or participate in paracrine modification by binding to adjacent cell membrane receptors. The signal transduction pathway mediated by Wnt genes is called the Wnt signaling pathway. Accumulating evidence has suggested that Wnt3a promotes or suppresses tumor progression via the canonical Wnt signaling pathway depending on cancer type. In addition, the roles of Wnt3a signaling can be inhibited by multiple proteins or chemicals. Human Wnt-3a shares 96% aa identity with mouse mouse, bovine and canine Wnt-3a, and 89%, 86% and 84% aa identity with chicken, Xenopus and zebrafish Wnt-3a, respectively. It also shares 87% aa identity with Wnt3. During embryonic development, Wnt-3a is necessary for proper development of the hippocampus, anterior-posterior patterning, somite development, and tailbud formation. Wnt-3a also promotes self-renewal of hematopoietic stem cells, neural stem cells, and embryonic stem cells.

产品性质

Synonyms	Wingless-type MMTV Integration Site Family, Member 3a
Uniprot No.	P56704
Gene ID	89780
Source	HEK293 cells-derived Human Wnt-3a, Ser19-Lys352.
Molecular Weight	Approximately 63.3 kDa.
AA Sequence	SY PIWWSLAVGP QYSSLGSQPI LCASIPGLVP KQLRFCRNYV EIMPSVAEGI KIGIQECQHQ FRGRRWNCTT VHDSLAIIFGP VLDKATRESA FVHAIASAGV AFAVTRSCAE GTAAICGCSS RHQGSPGKGW KWGGCSEDIE FGMVRSREFA DARENRPDAR SAMNRHNNEA GRQAIASHMH LKCKCHGLSG SCEVKTCWWS QPDFRAIGDF LKDKYDSASE MVVEKHRESR GWVETLRPRY TYFKVPTERD LVYYEASPNF CEPNPETGSF GTRDRTCNVS SHGIDGCDLL CCGRGHNARA ERRREKRCRV FHWCCYVSCQ ECTRVYDVHT CK
Tag	Fc
Purity	> 75% as determined by SDS-PAGE.
Activity	Measured by its binding ability in a ELISA method. Immobilized Human Wnt-3a at 10 µg/ml (100 µl/well) can bind Wnt-3a mouse monoclonal antibody.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS.

Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $\leq -20^{\circ}\text{C}$. Further dilutions should be made in appropriate buffered solutions.
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运输与保存方法

冰袋运输。-80°C保存，一年有效期。建议第一次使用时分装冻存，避免反复冻融。

注意事项

1. 避免反复冻融。
2. 为了您的安全和健康，请穿实验服并戴一次性手套操作。
3. 本产品仅作科研用途！