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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

TSLP (R127A, R130A) Avi-Tag, His-Tag, Biotin-Labeled Recombinant

Catalog: 102202
Lot: 240404-1

Product Information

Description:	Recombinant human TSLP (thymic stromal lymphopoietin), encompassing amino acids 29-159. This construct contains mutations R127A and R130A that impact the putative furin cleavage site present in the protein. This construct contains a C-terminal Avi-tag™ followed by a His-tag (6xHis). The recombinant protein was enzymatically biotinylated using the Avi-Tag™ and affinity purified.
Background:	TSLP (thymic stromal lymphopoietin) is a protein that functions as a type I cytokine, as an alarmin and growth factor in the immune system. It is involved in type 2 immune responses, T_H2 (T helper 2 cells) responses, and the maturation and recruitment of dendritic cells (DCs), T cells, B cells, neutrophils, mast cells, and other lymphoid cells. It can be produced by epithelial and stromal cells in lung, skin, and gastric system, but also by DCs, basophils and mast cells. Its expression can be induced by infections, pro-inflammatory cytokines, proteases, and even mechanical injury. For instance, it can be produced in the lungs in response to infection with influenza or rhinovirus. Its role as alarmin can result in increasing inflammation. TSLP is linked to allergic reactions such as asthma, atopic dermatitis, and food allergies, by inducing the expression of OX40L, CD80 and CD86 and stimulating $CD4^+$ T cells. The mutations R127A and R130A function to remove a putative furin site and further stabilize the full-length protein in HEK293 cells. In 2021, the TLSP-neutralizing antibody tezepelumab was approved for the treatment of severe asthma. Targeting TSLP is an active area of investigation with ongoing clinical trials for the treatment of autoimmune disorders.
Species:	Human
Construct:	TSLP (R127A, R130A) (29-159-Avi-His)-(Biotin)
Concentration:	1.71 mg/ml
Expression System:	HEK293
Purity:	≥90%
Endotoxin Level:	8.07 EU/mg
Format:	Aqueous buffer solution.
Formulated In:	8 mM phosphate, pH7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol
MW:	18.1 kDa + glycans
Glycosylation:	This protein runs at a higher MW by SDS-PAGE due to glycosylation.
Genbank Accession:	NM_033035.5
Label:	This protein is enzymatically biotinylated using Avi-Tag™ technology. Biotinylation is confirmed to be ≥90%
Stability:	At least 6 months at -80°C.
Storage:	-80°C
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Assay Conditions:	Assay was done according to TSLPR:TSLP [Biotinylated] Small Molecule Inhibitor Screening Chemiluminescence Assay Kit (BPS Bioscience #82698) with various amounts of TSLP (R127A, R130A), Avi-Tag, His-Tag, Biotin-Labeled Recombinant.
Applications:	Useful for avidin pulldown and binding assays.

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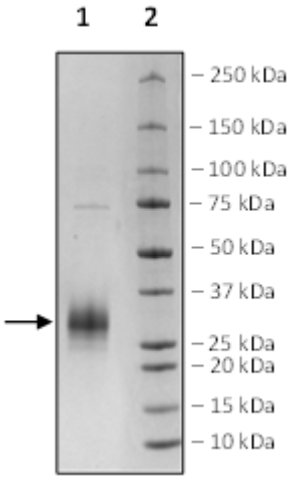
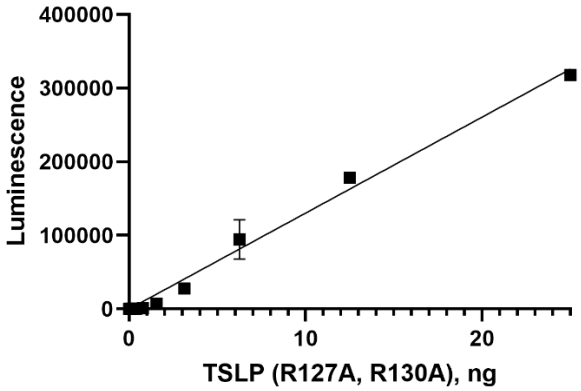
Quality Control Data

4-20% SDS-PAGE Coomassie Staining

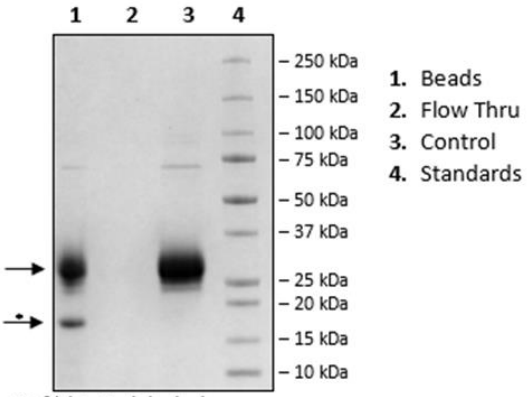


TSLPR/TSLP (R127A, R130A) Binding Activity



Quality Control Data

Biotin-Avidin Pulldown



99 % biotin labeled.
* Avidin from beads.