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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# DPP10 (h): 293T Lysate: sc-174156

## BACKGROUND

Dipeptidyl peptidases (DPPs) mediate regulatory activity of their substrates and have been linked to a variety of diseases including type 2 diabetes, obesity and cancer. DPPs have post-proline dipeptidyl aminopeptidase activity, cleaving Xaa-Pro dipeptides from the N-termini of proteins. DPPs can bind specific voltage-gated potassium channels and alter their expression and biophysical properties and may also influence T cells. DPP proteins include DPP1, DPP2, DPP3, DPP7, DPP10, DPPX and CD26. DPP10 (dipeptidyl-peptidase 10), also known as DPP3 (dipeptidyl peptidase IV-related protein 3), DPL2 or DPPY, is a non-functional dipeptidyl peptidase which can bind to the potassium channels KV4.1 and KV4.2. It is a single-pass type II membrane protein expressed in spinal cord, adrenal glands, pancreas and brain tissues and may act as a modulator for cell surface expression and activity of KV4.1 and KV4.2.

## REFERENCES

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2. Jerng, H.H., et al. 2004. Modulation of KV4.2 channel expression and gating by dipeptidyl peptidase 10 (DPP10). *Biophys. J.* 87: 2380-2396.
3. Jerng, H.H., et al. 2005. Multiprotein assembly of Kv4.2, KChIP3 and DPP10 produces ternary channel complexes with ISA-like properties. *J. Physiol.* 568: 767-788.
4. Zagha, E., et al. 2005. DPP10 modulates KV4-mediated A-type potassium channels. *J. Biol. Chem.* 280: 18853-18861.
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7. Li, H.L., et al. 2006. DPP10 is an inactivation modulatory protein of KV4.3 and Kv1.4. *Am. J. Physiol., Cell Physiol.* 291: C966-C976.
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## CHROMOSOMAL LOCATION

Genetic locus: DPP10 (human) mapping to 2q14.1.

## PRODUCT

DPP10 (h): 293T Lysate represents a lysate of human DPP10 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## APPLICATIONS

DPP10 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive DPP10 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.