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## Produktinformation



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Diagnostik & molekulare Diagnostik



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### Zuschläge

- Mindermengenzuschlag
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- Gefahrgutzuschlag
- Expressversand

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# NTPDase8 (h2): 293T Lysate: sc-129286

## BACKGROUND

Members of the ecto-nucleoside triphosphate diphosphohydrolase (eNTPDase) protein family are glycosylated enzymes that hydrolyze nucleoside 5'-triphosphates and 5'-diphosphates in extracellular space. The enzymatic activities of eNTPDase are dependent on cations such as magnesium and calcium. Members of this protein family differ in their affinities for triphosphates versus diphosphates as substrate material. NTPDase8, also known as ENTPD8 (ectonucleoside triphosphate diphosphohydrolase 8) or E-NTPDase 8, is a 495 amino acid multi-pass membrane protein belonging to the GDA1/CD39 NTPase family. As a canalicular ectonucleoside NTPDase, NTPDase8 is involved in hepatic NTPDase activity and helps concentrate extracellular nucleotides. NTPDase8 binds calcium as a cofactor, becomes glycosylated following translation and exists as two alternatively spliced isoforms.

## REFERENCES

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2. Knowles, A.F. and Li, C. 2006. Molecular cloning and characterization of expressed human ecto-nucleoside triphosphate diphosphohydrolase 8 (E-NTPDase 8) and its soluble extracellular domain. *Biochemistry* 45: 7323-7333.
3. Atkinson, B., Dwyer, K., Enjyoji, K. and Robson, S.C. 2006. Ecto-nucleotidases of the CD39/NTPDase family modulate platelet activation and thrombus formation: Potential as therapeutic targets. *Blood Cells Mol. Dis.* 36: 217-222.
4. Fausther, M., Lecka, J., Kukulski, F., Lévesque, S.A., Pelletier, J., Zimmermann, H., Dranoff, J.A. and Sévigny, J. 2007. Cloning, purification, and identification of the liver canalicular ecto-ATPase as NTPDase8. *Am. J. Physiol. Gastrointest. Liver Physiol.* 292: G785-G795.
5. Munkonda, M.N., Kauffenstein, G., Kukulski, F., Lévesque, S.A., Legendre, C., Pelletier, J., Lavoie, E.G., Lecka, J. and Sévigny, J. 2007. Inhibition of human and mouse plasma membrane bound NTPDases by P2 receptor antagonists. *Biochem. Pharmacol.* 74: 1524-1534.

## CHROMOSOMAL LOCATION

Genetic locus: ENTPD8 (human) mapping to 9q34.3.

## PRODUCT

NTPDase8 (h2): 293T Lysate represents a lysate of human NTPDase8 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.

## RESEARCH USE

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

## APPLICATIONS

NTPDase8 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive NTPDase8 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.

## PROTOCOLS

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