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GDI1 Blocking Peptide (C-term)

Synthetic peptide
Catalog # BP20083b

Specification

GDI1 Blocking Peptide (C-term) - Product Information

Primary Accession	P31150
Other Accession	P50398, P50396, Q8HXX7, P21856, NP_001484.1

GDI1 Blocking Peptide (C-term) - Additional Information

Gene ID 2664

Other Names
Rab GDP dissociation inhibitor alpha, Rab GDI alpha, Guanosine diphosphate dissociation inhibitor 1, GDI-1, Oligophrenin-2, Protein XAP-4, GDI1, GDIL, OPHN2, RABGDIA, XAP4

Target/Specificity
The synthetic peptide sequence is selected from aa 430-443 of HUMAN GDI1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GDI1 Blocking Peptide (C-term) - Protein Information

Name GDI1

Synonyms GDIL, OPHN2, RABGDIA, XAP4

Function
Regulates the GDP/GTP exchange reaction of most Rab proteins by inhibiting the dissociation of GDP from them, and the subsequent binding of GTP to them. Promotes the dissociation of GDP-bound Rab proteins from the membrane and inhibits their activation. Promotes the dissociation of RAB1A, RAB3A, RAB5A and RAB10 from membranes.

Cellular Location
Cytoplasm. Golgi apparatus, trans-Golgi network

Tissue Location
Brain; predominant in neural and sensory tissues.

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GDI1 Blocking Peptide (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

GDI1 Blocking Peptide (C-term) - Images

GDI1 Blocking Peptide (C-term) - Background

GDP dissociation inhibitors are proteins that regulate the GDP-GTP exchange reaction of members of the rab family, small GTP-binding proteins of the ras superfamily, that are involved in vesicular trafficking of molecules between cellular organelles. GDIs slow the rate of dissociation of GDP from rab proteins and release GDP from membrane-bound rabs. GDI1 is expressed primarily in neural and sensory tissues. Mutations in GDI1 have been linked to X-linked nonspecific mental retardation.

GDI1 Blocking Peptide (C-term) - References

Martins-de-Souza, D., et al. J Psychiatr Res 44(14):989-991(2010)
Massignan, T., et al. Mol. Cell Proteomics 9(4):611-622(2010)
Chen, Y., et al. Biochem. J. 422(2):229-235(2009)
Zhang, K.J., et al. Yi Chuan 30(5):590-594(2008)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :