

Neuropeptide W/neuropeptide B receptors (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database

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Abstract

The neuropeptide BW receptor 1 (NPBW1, **provisional nomenclature [5]**) is activated by two 23-amino-acid peptides, neuropeptide W (**neuropeptide W-23**) and neuropeptide B (**neuropeptide B-23**) [20, 6]. C-terminally extended forms of the peptides (**neuropeptide W-30** and **neuropeptide B-29**) also activate NPBW1 [2]. Unique to both forms of neuropeptide B is the N-terminal bromination of the first tryptophan residue, and it is from this post-translational modification that the nomenclature NPB is derived. These peptides were first identified from bovine hypothalamus and therefore are classed as neuropeptides. Endogenous variants of the peptides without the N-terminal bromination, **des-Br-neuropeptide B-23** and **des-Br-neuropeptide B-29**, were not found to be major components of bovine hypothalamic tissue extracts. The NPBW2 receptor is activated by the short and C-terminal extended forms of neuropeptide W and neuropeptide B [2].

Contents

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Database links

[Neuropeptide W/neuropeptide B receptors](#)

<http://www.guidetopharmacology.org/GRAC/FamilyDisplayForward?familyId=45>

[Introduction to Neuropeptide W/neuropeptide B receptors](#)

<http://www.guidetopharmacology.org/GRAC/FamilyIntroductionForward?familyId=45>

Receptors

NPBW1 receptor

<http://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=303>

NPBW2 receptor

<http://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=304>

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