10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

(Mouse) Pou5f1 Blocking Peptide (N-term)

Synthetic peptide
Catalog # BP21334a

Specification

(Mouse) Pou5f1 Blocking Peptide (N-term) - Product Information

Primary Accession P20263

(Mouse) Pou5f1 Blocking Peptide (N-term) - Additional Information

Gene ID 18999

Other Names
POU domain, class 5, transcription factor 1, NF-A3, Octamer-binding protein 3, Oct-3, Octamer-binding protein 4, Oct-4, Octamer-binding transcription factor 3, OTF-3, Pou5f1, Oct-3, Oct-4, Otf-3, Otf3

Target/Specificity
The synthetic peptide sequence is selected from aa 86-99 of HUMAN Pou5f1

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.

(Mouse) Pou5f1 Blocking Peptide (N-term) - Protein Information

Name Pou5f1

Synonyms Oct-3, Oct-4, Otf-3, Otf3

Function
Transcription factor that binds to the octamer motif (5'- ATTTGCAT-3') (PubMed:1972777, PubMed:1690859, PubMed:1967980, PubMed:17525163, PubMed:23376973). Forms a trimeric complex with SOX2 or SOX15 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206 (PubMed:15863505, PubMed:17097055, PubMed:17496161, PubMed:<a

href="http://www.uniprot.org/citations/19740739" target="_blank">19740739). Critical for early embryogenesis and for embryonic stem cell pluripotency (PubMed:1972777, PubMed:1690859, PubMed:17496161, PubMed:18662995, PubMed:19740739, PubMed:29153991, PubMed:23376973, PubMed:32703285).

Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:Q01860}. Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108, ECO:0000255|PROSITE- ProRule:PRU00530, ECO:0000269|PubMed:17496161, ECO:0000269|PubMed:17525163, ECO:0000269|PubMed:29153991} Note=Expressed in a diffuse and slightly punctuate pattern (By similarity). Colocalizes with MAPK8 and MAPK9 in the nucleus (PubMed:29153991). {ECO:0000250|UniProtKB:Q01860, ECO:0000269|PubMed:29153991}

Tissue Location
Expressed the totipotent and pluripotent stem cells of the pregastrulation embryo. Also expressed in primordial germ cells and in the female germ line. Absent from adult tissues

(Mouse) Pou5f1 Blocking Peptide (N-term) - Protocols

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

- Blocking Peptides

(Mouse) Pou5f1 Blocking Peptide (N-term) - Images

(Mouse) Pou5f1 Blocking Peptide (N-term) - Background

Transcription factor that binds to the octamer motif (5'-ATTTGCAT-3'). Forms a trimeric complex with SOX2 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206. Critical for early embryogenesis and for embryonic stem cell pluripotency.

(Mouse) Pou5f1 Blocking Peptide (N-term) - References

Rosner M.H.,et al.Nature 345:686-692(1990).
Schoeler H.R.,et al.Nature 344:435-439(1990).
Okamoto K.,et al.Cell 60:461-472(1990).
Okazawa H.,et al.EMBO J. 10:2997-3005(1991).
Tsuruzoe S.,et al.Biochem. Biophys. Res. Commun. 351:920-926(2006).