

## Recombinant Rat Obp2a protein, His & T7-tagged

**Cat. No.** Obp2a-8227R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Rat Obp2a aa. (Gln20~Asp176 (Accession # B3EY84)) fused with N-terminal His & T7 tag was produced in E. coli cells.                                                                                                                                                                                                                |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | Gln20~Asp176                                                                                                                                                                                                                                                                                                                                   |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 22.0kDa.                                                                                                                                                                                                                                                                                                             |
| <b>Endotoxin</b>        | <1.0EU per 1ug (determined by the LAL method)                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | >95%                                                                                                                                                                                                                                                                                                                                           |
| <b>Characteristic</b>   | The isoelectric point is 5.3.                                                                                                                                                                                                                                                                                                                  |
| <b>Applications</b>     | SDS-PAGE; WB; ELISA; IP.                                                                                                                                                                                                                                                                                                                       |
| <b>Stability</b>        | The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed.<br>(Referring from China Biological Products Standard, which was calculated by the |

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|                       |                                                                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
|                       | Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.               |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.                                  |
| <b>Storage Buffer</b> | Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative. |
| <b>Reconstitution</b> | Reconstitute in sterile ddH <sub>2</sub> O.                                                                                                 |

## GENE INFORMATION

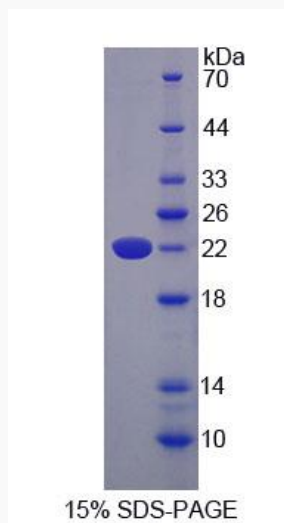
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|------------------------|-------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Obp2a odorant binding protein 2A [ <i>Rattus norvegicus</i> (Norway rat) ]                |
| <b>Official Symbol</b> | Obp2a                                                                                     |
| <b>Synonyms</b>        | Obp2a; odorant binding protein 2A; Lcn13; Obp2b; lipocalin 13; odorant binding protein 2B |
| <b>Gene ID</b>         | 680754                                                                                    |
| <b>mRNA Refseq</b>     | NM_001128139.2                                                                            |
| <b>Protein Refseq</b>  | NP_001121611.1                                                                            |
| <b>UniProt ID</b>      | B3EY84                                                                                    |

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**SDS-PAGE**



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