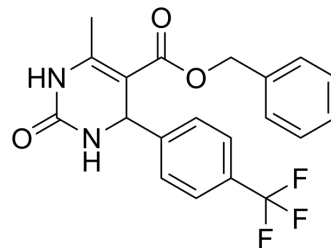


## MS438

|                    |   |
|--------------------|---|
| Cat. No.:          | HY-114918   |
| CAS No.:           | 512840-45-8   |
| Molecular Formula: | C <sub>20</sub> H <sub>17</sub> F <sub>3</sub> N <sub>2</sub> O <sub>3</sub>              |
| Molecular Weight:  | 390.36  |
| Target:            | TSH Receptor  |
| Pathway:           | GPCR/G Protein  |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

|                           |   |
|---------------------------|---|
| Description               | MS438 is a potent thyrotropin receptor (TSHR) agonist with an EC <sub>50</sub> of 53 nM. MS438 binds to the serpentine portion of the TSHR. MS438 induces T4 secretion in mice <sup>[1]</sup> . |
| IC <sub>50</sub> & Target | EC50: 53 nM (TSHR) <sup>[1]</sup>   |

### REFERENCES

[1]. Latif R, et al. New small molecule agonists to the thyrotropin receptor. *Thyroid*. 2015 Jan;25(1):51-62.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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