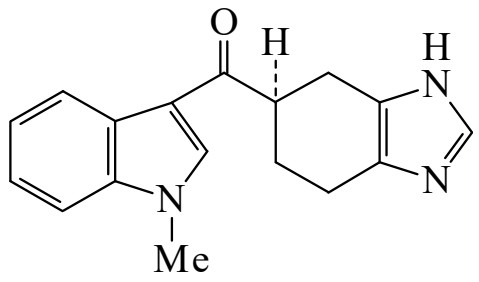
>>**Entry Name: Ramosetron,** INN
Synonym(s): (1-Methyl-1*H*-indol-3-yl)(4,5,6,7-tetrahydro-1*H*-benzimidazol-5-yl)methanone. Nasea. YM 060



(*R*)-*form*

CAS Registry Number: 132036-39-6
Related CAS Registry Numbers(s): 132036-89-6 132907-67-6 137887-27-5 138665-45-9 138680-81-6

Molecular Formula: $C_{17}H_{17}N_3O$
Molecular Weight: 279.341
Accurate Mass: 279.137162
Percentage Composition: C 73.10%; H 6.13%; N 15.04%; O 5.73%
Use/Importance: 5-Hydroxytryptamine ($5HT_3$) receptor antagonist. Potential antiemetic agent
Development Status: Launched 1996 (Japan) (Yamanouchi)
Calculated Log P Data: Log P 1.98 (calc)

>>**Variant:** (*R*)-form

CAS Registry Number: 132036-88-5
Molecular Formula: $C_{17}H_{17}N_3O$
Molecular Weight: 279.341
Accurate Mass: 279.137162
Percentage Composition: C 73.10%; H 6.13%; N 15.04%; O 5.73%
Physical Description: Foam
Optical Rotation: $[\alpha]_D^{20}$–16.5 (c, 1.13 in MeOH)

>>**Derivative:** Hydrochloride
Synonym(s): YM 060

CAS Registry Number: 132907-72-3
Hazard & Toxicity: LD_{50} (rat, ivn) 151 mg/kg. Exp. reprod. effects

>>**Variant:** (*S*)-form

CAS Registry Number: 132036-90-9
Molecular Formula: $C_{17}H_{17}N_3O$
Molecular Weight: 279.341
Accurate Mass: 279.137162
Percentage Composition: C 73.10%; H 6.13%; N 15.04%; O 5.73%
Physical Description: Foam
Optical Rotation: $[\alpha]_D^{20}$+28.3 (c, 1.14 in MeOH)

>>**Variant:** (±)-form

Molecular Formula: $C_{17}H_{17}N_3O$
Molecular Weight: 279.341
Accurate Mass: 279.137162
Percentage Composition: C 73.10%; H 6.13%; N 15.04%; O 5.73%
Physical Description: Cryst.
Melting Point: Mp 139-141°

>>**Derivative:** Fumarate

Physical Description: Cryst. (EtOAc/MeOH)
Melting Point: Mp 97-102°

>>**Derivative:** Fumarate (2:1)

Melting Point: Mp 224-225°

References: