

Reaction of DIMBOA with amines

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DIMBOA (2,4-dihydroxy-7-methoxy-1,4-benzoxazin-3-one), a hydroxamic acid from cereals, reacted with primary amines to give an addition compound with two imino groups. Kinetic studies with DIMBOA and with the DIMBOA analogues 2,7-dimethoxy-1,4-benzoxazin-3-one and 2-hydroxy-7-methoxy-1,4-benzoxazin-3-one indicated that the reaction occurred through the intermediacy of the aldol tautomer of DIMBOA. The data is discussed in relation to the biological activity of DIMBOA. © 1989.