

## CHO-451\_ Advanced\_Synthetic\_Organic\_Chemistry

Item Text	Option Text 1	Option Text 2	Option Text 3	Option Text 4
Organotin is used as the coupling partner in which of the following coupling reaction?	Kumada	Suruki	Sthile	Heck
Rate determining step in stille coupling reaction is	oxidative addition	tranmetallation	bête hydroxyl elimination	reductive elimination
The reactivity pattern of aryl halides in the coupling reactions is usually as follows	aryl chloride, aryl bromide, aryl iodide	aryl bromide, aryl iodide aryl, chloride	aryl iodide, aryl chloride, aryl bromide	aryl iodide, aryl bromide, aryl chloride
Which of the following statements regarding Suruki reaction. Is in incorrect?	It avoids the formation of toxic triallyltin halide by products.	Alkenyl boronate species can be prepared easily by hydroboration of alkynes.	It is best performed in the presence of an acid.	Unsaturated iodides react fastest.
The reaction which involves the addition of carbon monoxide and hydrogen to an alkene catalyzed by tricarbonylhydridocobalt is known as	Oxo process	Wittig reaction	Wacker process	Baylis process
The Kumada cross-coupling reaction is the palladium catalyss organic reaction of an organohalide with an	Organozinc compound	Organoborone compound	organomagnesium compound	organotin compound
The reaction which using the synthesis for carbon nitrogen bonds via the palladium-catalyzed coupling reaction of amine with aryl halides is known as	Buchwald-Hartwig reaction	Reppe synthesis	Noyori reaction	Hiyama reaction
Which are dramatically improved in the intramolecular Heck reaction than in the intermolecular Heck reaction.	regiospecificity and chemoselectivity	regioselectivity and stereoselectivity	regioselectivity and chemoselectivity	regiospecificity and enantioselectivity

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Which of the following metal is catalyzed Stille coupling reaction?	Cobalt	Nikel	Iron	Palladium
In Stille reaction, the Palladium catalyst cross coupling reaction of aryl halide, vinyl halide with	organoboron	organosilane	organozinc	organostannane
In Organotin, Tin is used as the coupling partner in	Kumada coupling reaction	Stille coupling reaction	Suzuki coupling reaction	Negishi coupling reaction
In Oxidative addition oxidation state of the metal center is	increased	decreased	remain same	cannot be predicted
Reductive elimination demands, which of the following orientation of the departing coupling partner?	trans	cis	non specified	non planar
The chemical reaction of an unsaturated halide with alene in presence of base and palladium catalyst is called as	Oxo reaction	Reppe reaction	Noyori annulation	Heck reaction
In a Heck reaction palladium forms bond with carbon, this step is known as	oxidative addition	reductive addition	transmetalation	carbonpalladation
The nature of Heck coupling reaction is	stereospecific	stereoselective	regioselective	chemoselective
The Pd cross coupling reaction of aryl halide, unsaturated triflate with terminal alkyne is known as	Pauskhand reaction	Kumada coupling	Sonogashira coupling	Baylis Hilman Reaction
In a Sonogashira coupling reaction, Cu is used as	catalyst	co-catalyst	reactant	reagent
The Sonogashira reaction, is a cross coupling reaction used in organic synthesis to form	carbon-carbon single bond	carbon-carbon double bond	carbon-carbon triple bond	carbon-Cu single bond
Which of the following is a coupling reaction taking place between a thioester and an organozinc halide in presence of Pd catalyst?	Kumada coupling	Fukuyama coupling	Stille coupling	Oxo coupling